

Serial No.: 10/629,978
Filing Date: July 30, 2003
Atty. Docket No.: 22956-234

AMENDMENTS TO THE CLAIMS

- 1-27. (Cancelled).
28. (Currently Amended) A device for anchoring a filament to tissue or bone, comprising:
an anchor member adapted to be embedded in bone and having a cavity formed therein;
an insertion element adapted to be disposed in the cavity in the anchor member;
at least one radial channel formed around a head of the insertion element; and
at least one suture-receiving channel formed in the insertion element and adapted to seat a
filament, the suture-receiving channel having a size adapted to substantially secure the filament therein
when the insertion element is disposed in the cavity in the anchor member.
29. (Currently Amended) The device of claim 28, where the at least one suture-receiving channel is
formed on a surface of the ~~anchor member~~ insertion element.
30. (Currently Amended) The device of claim 28, where the at least one suture-receiving channel
extends between proximal and distal ends of the ~~anchor member~~ insertion element.
31. (Cancelled).
32. (Previously Presented) The device of claim 28, wherein the cavity comprises a lumen extending
between proximal and distal ends of the anchor member.
33. (Previously Presented) The device of claim 28, further comprising at least one filament disposed
within the at least one suture-receiving channel.
34. (Previously Presented) The device of claim 33, wherein the filament is non-movable when the
insertion element is disposed in the cavity in the anchor member.
35. (Previously Presented) The device of claim 28, wherein the anchor member is adapted to be
embedded in a tunnel in bone.
36. (Previously Presented) The device of claim 28, wherein the insertion element has an outer
diameter that is equal to or greater than an inner diameter of the cavity in the anchor member.

Serial No.: 10/629,978
Filing Date: July 30, 2003
Atty. Docket No.: 22956-234

37. (Previously Presented) The device of claim 28, wherein the device is formed from a biocompatible material selected from the group consisting of polyethylene, polypropylene, steel, poly-l-lactide and lactide-glycolide compositions.
38. (Currently Amended) A device for anchoring a filament to tissue or bone, comprising:
an anchoring element adapted to be embedded in bone and having a cavity formed therein; and
an insertion stem adapted to be disposed in the cavity to retain a filament between the insertion stem and the anchoring element, the insertion stem including at least one radial channel formed around a head thereof and at least one suture-receiving channel formed on a surface thereof and adapted to slidably receive a filament, the suture-receiving channel having a size adapted such that the filament is retained by compression fit between the insertion stem and the anchoring element when the insertion stem is disposed within the cavity in the anchoring element.
39. (Previously Presented) The device of claim 38, wherein the cavity comprises a lumen extending between proximal and distal ends of the anchoring element.
40. (Currently Amended) The device of claim 39, where the insertion stem includes at least one suture-receiving channel that extends between proximal and distal ends thereof of the anchoring element.
41. (Cancelled).
42. (Currently Amended) The device of claim ~~38~~ 39, further comprising at least one filament disposed within the at least one suture-receiving channel.
43. (Previously Presented) The device of claim 42, wherein the filament is non-movable when the insertion stem is disposed in the cavity in the anchoring element.
44. (Previously Presented) The device of claim 38, wherein the anchoring element is adapted to be embedded in a tunnel in bone.
45. (Previously Presented) The device of claim 38, wherein the insertion stem has an outer diameter that is equal to or greater than an inner diameter of the cavity in the anchoring element.

Serial No.: 10/629,978
Filing Date: July 30, 2003
Atty. Docket No.: 22956-234

46. (Previously Presented) The device of claim 38, wherein the device is formed from a biocompatible material selected from the group consisting of polyethylene, polypropylene, steel, poly-l-lactide and lactide-glycolide compositions.
47. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
an anchor member adapted to be embedded in bone, the anchor having at least one cavity therein and including first and second components adapted to hold a filament therebetween by interference fit such that, where the filament has a breaking strength greater than a threshold force, the filament is substantially non-movable in response to a tensional force less than a threshold force applied to any of the at least one portion, and the filament is longitudinally movable in response to a tensional force greater than the threshold force applied to any of the at least one portion.
48. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
an anchor member adapted to be embedded in bone, the anchor member having at least one cavity therein and including first and second components that are adapted to hold a filament within the at least one cavity by interference fit between the first and second components such that the filament is compressed within the at least one cavity and a threshold tension necessary to move the filament is substantially the same as or greater than a breaking strength of the filament.
49. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
an anchor member adapted to be embedded in bone, the anchor having at least one cavity therein and first and second components that are adapted to hold a filament within the at least one cavity by an interference fit between the first and second components such that the filament is effective to resist operational forces to which the filament is subjected to subsequent to deployment of the device into bone.
50. (Previously Presented) The device of claim 49, wherein the anchor member includes a frangible portion that is adapted to shear during deployment of the device into bone.
51. (Previously Presented) The device of claim 49, wherein the at least one cavity includes opposed open ends.
52. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
a first component adapted to be embedded in bone and having at least one cavity therein;

Serial No.: 10/629,978
Filing Date: July 30, 2003
Atty. Docket No.: 22956-234

a second component receivable within the first component such that the first and second components are effective to retain a filament therebetween by interference fit.

53. (Previously Presented) The device of claim 52, wherein the first and second components are adapted to hold the filament such that, where the filament has a breaking strength greater than the threshold force, the filament is substantially non-movable in response to a tensional force less than a threshold force applied to at least one portion of the filament, and the filament is longitudinally movable in response to a tensional force greater than the threshold force applied to the at least one portion of the filament.

54. (Previously Presented) The device of claim 52, wherein the first and second components are adapted to hold the filament such that the filament is effective to resist operational forces to which the filament is subjected to subsequent to deployment of the device in a patient's body.

55. (Previously Presented) The device of claim 52, wherein the first anchor member includes a frangible portion that is adapted to shear during deployment of the device into bone.

56. (Previously Presented) The device of claim 52, wherein the at least one cavity component includes opposed open ends.

57. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
an anchor member adapted to be embedded in bone and having a cavity formed therein and an insertion element adapted to be disposed in the cavity in the anchor member, the anchor member and the insertion element being adapted to hold a filament within the cavity by interference fit.

58. (New) A device for anchoring a filament to tissue or bone, comprising:
a first component adapted to be embedded in bone and having a cavity formed therein;
a second component receivable within the first component such that the first and second components are effective to retain a filament therebetween, the second component including a frangible portion that is adapted to shear during deployment of the device into bone.

59. (New) The device of claim 58, wherein the second component includes a flange formed on a terminal end thereof, the flange having an outer diameter that is greater than an inner diameter of the cavity in the first component.

Serial No.: 10/629,978
Filing Date: July 30, 2003
Atty. Docket No.: 22956-234

60. (New) The device of claim 59, wherein the flange is formed on a distal end of the second component, and the frangible portion is formed on a proximal end of the second component.
61. (New) The device of claim 58, further comprising an elongate deployment member attached to the second component by the frangible portion, wherein the frangible portion is adapted to shear upon application of a force applied to the elongate deployment member.
62. (New) The device of claim 58, further comprising a filament extending through the cavity in the first component and disposed between the first and second components.
63. (New) The device of claim 58, wherein the first and second components are adapted to retain a filament therebetween by an interference fit.
64. (New) A device for anchoring a filament to tissue or bone, comprising:
an anchor having first and second components adapted to retain a suture therebetween, the second component being receivable within the first component; and
an elongate shaft frangibly attached to the second component for inserting the second component into the first component.
65. (New) The device of claim 64, wherein the second component includes a flange formed on a terminal end thereof and adapted to abut a terminal end of the first component.
66. (New) The device of claim 65, wherein the flange is formed on a distal end of the second component, and a proximal end of the second component is frangibly attached to the elongate shaft.
67. (New) The device of claim 64, wherein the elongate shaft is frangibly attached to the second component by a frangible portion that is adapted to shear upon application of a force applied to the elongate shaft.
68. (New) A suture anchor, comprising:
an elongate shaft having an insertion element frangibly attached to a distal end thereof; and

Serial No.: 10/629,978
Filing Date: July 30, 2003
Atty. Docket No.: 22956-234

an anchoring element adapted to be disposed within bone and to receive the insertion element such that the insertion element and the anchoring element are adapted to retain a suture therebetween by an interference fit.

69. (New) The device of claim 68, wherein the insertion element includes a flange formed on a terminal end thereof and adapted to abut a terminal end of the anchoring element.

70. (new) The device of claim 68, wherein the anchoring element includes a cavity formed therein for receiving the insertion element.

71. (New) The device of claim 70, further comprising a filament extending through the cavity in the anchoring element between the anchoring element and insertion element.